SEQUENCE LISTING

		(1) GENERAL INFORMATION:(i) APPLICANTS: Yuan Min Wu and Eileen Xiao-Feng Nie	
	5	(ii) TITLE OF THE INVENTION: SOLUTION HYBRIDIZATION OF NUCLEIC ACIDS WITH ANTISENSE PROBES HAVING MODIFIED BACKBONES	
		(iii) NUMBER OF SEQUENCES: 12	
	10	 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Caesar, Rivise, Bernstein, Cohen & Pokotilow, Lt (B) STREET: 12th Floor, 7 Penn Center, 1635 Market Street (C) CITY: Philadelphia (D) STATE: Pennsylvania (E) COUNTRY: U.S.A. (F) ZIP: 19103-2212 	∶d
n ii Arm Andt Amh Sud Tud	15	 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 	
Seel Bre 11 II II	20	(vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: (B) FILING DATE:	
m term mad that	25	(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Tener, David M. (B) REGISTRATION NUMBER: 37,054 (C) REFERENCE/DOCKET NUMBER: E1047/20006	
6		(ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 215-567-2010 (B) TELEFAX: 215-751-1142	
~	30	(2) INFORMATION FOR SEQ ID NO:1:	
\		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide	
	35	(C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
		CTTCGAGATG TTCCGAGAGC TGAATGAGGC CTTGGAACTC 40	
		(2) INFORMATION FOR SEQ ID NO:2:	
	40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded	

Attorney Docket No. E1047/20006

		(D) TOPOLOGY: linear
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
		CTTCGACATG TTCCGAGAGC AGAATGAGGC CTTGGAACTC 40
		(2) INFORMATION FOR SEQ ID NO:3:
	5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
		CTTCGAGATG TTCCGAGAGG AGAATGAGGC CTTGGAACT 40
1100		(2) INFORMATION FOR SEQ ID NO:4:
	15 \	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	Ar	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
	"AY	CTTCGAGATG TTCCGAGAGT ACAATGAGGC CTTGGAACTC 40
	20 ()	(2) INFORMATION FOR SEQ ID NO:5
	25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
		AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG 40
		(2) INFORMATION FOR SEQ ID NO:6:
	30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
		(ii) MOLECULE TYPE: genomic DNA
	35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
		AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG ATGGAGAATA\TTTCACCCTT 60

Attorney Docket No. E1047/20006

	CAGATCCGTG GGCGTGAGCG CTTCGAGATG TTCCGAGAGC TGAATGAGGC CTTGGAACTC	120
	AAGGATGCCC AGGCTGGGAA GGAGCCAGGG	150
	(2) INFORMATION FOR SEQ ID NO:7:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
10	AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG ATGGAGAATA TTTCACCCTT	60
	CAGATCCGTG GGCGTGAGCG CTTCGAGATG TTCCGAGAGC AGAATGAGGC CTTGGAACTC	120
	AAGGATGCCC AGGCTGGGAA GGAGCCAGGG	150
	(2) INFORMATION FOR SEQ ID NO:8:	
15 / k	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
	AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG ATGGAGAATA TTTCACCCTT	60
	CAGATCCGTG GGCGTGAGCG CTTCGAGATG TTCCGAGAGA AGAATGAGGC CTTGGAACTC	120
	AAGGATGCCC AGGCTGGGAA GGAGCCAGGG	150
	(2) INFORMATION FOR SEQ ID NO:9:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
	GCCAACTGGC CAAGACCTGC CCTGTGCAGC TGTGGGTTGA TTCCACACCC CCGCCCGGCA	60
	CCCGCGTCCG CGCCATGGCC ATCTACAAGC AGTCACAGCA CATGACGGAG GTTGTGAGGC	120
	(2) INFORMATION FOR SEQ ID NO:10:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 bases	

43

E104720006-APP-V2

Attorney Docket No. E1047/20006

5	(B) TYPE: nucleotide with four methylphosphonate substitutions along its backbone (C) STRANDEDNESS: single-stranded (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10: CCTCATTCAG CTCTCGGA 18 (2) INFORMATION FOR SEQ ID NO:11:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 bases (B) TYPE: nucleotide with nine methylphosphonate substitutions along its backbone (C) STRANDEDNESS: single-stranded (D) TOPOLOGY: linear
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11: CCTCATTCAG CTCTCGGA 18 (2) INFORMATION FOR SEQ ID NO:12:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 bases (B) TYPE: nucleotide with 15 methylphosphonate substitutions along its backbone (C) STRANDEDNESS: single-stranded (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID WO:12:
25	CTCATTCAGC TCTCG 15